

4/22/1 DIALOG(R)File 351:Derwent WPI (c) 2003 Thomson Derwent. All rts. reserv.

011396390      \*\*Image available\*\*

WPI Acc No: 1997-374297/199735

XRPX Acc No: N97-310704

Throughflow expansion vessel for shower hot water supply -  
has two connecting nipples in housing for connection to piping and  
cylindrical membrane with end edges which locates on the housing sealing  
around connecting nipples

Patent Assignee: FLAMCO BV (FLAM-N)

Inventor: DROOGERS J G; DROOGERS G J

Number of Countries: 002 Number of Patents: 002

Basic Patent:

| Patent No  | Kind | Date     | Applicat No  | Kind | Date     | Week     |
|------------|------|----------|--------------|------|----------|----------|
| DE19701577 | A1   | 19970724 | 97DE-1001577 | A    | 19970117 | 199735 B |

Priority Applications (No Type Date): 96NL-1002144 A 19960122

Abstract (Basic): DE 19701577 A

A closed gas chamber is formed between the housing and the membrane  
and a fluid chamber inside the membrane. A throughflow passage ensures,  
within the membrane, an open fluid connection between the two  
connecting nipples when the pressure in the fluid chamber is lower than  
that in the gas chamber.

The throughflow passage is formed by reinforcement ribs (23-26)  
extending in the longitudinal direction of the membrane. These ribs are  
U-shaped in cross-section. Each connecting nipple within the housing  
has a radial flange, provided with an all-round groove for  
accommodation of an end edge of the membrane (9).

ADVANTAGE - The throughflow expansion vessel obviates the problem  
with known such vessels which have a relatively large number of  
individual parts and their assembly is complicated, thus impeding  
automatic production.

Dwg.5/5

Title Terms: THROUGHFLOW; EXPAND; VESSEL; SHOWER; HOT; WATER; SUPPLY; TWO;  
CONNECT; NIPPLE; HOUSING; CONNECT; PIPE; CYLINDER; MEMBRANE; END; EDGE;  
LOCATE; HOUSING; SEAL; CONNECT; NIPPLE

Derwent Class: Q74

International Patent Class (Main): F24D-003/10; F24H-009/00

File Segment: EngPI

Derwent WPI (Dialog® File 351): (c) 2003 Thomson Derwent. All rights reserved.

© 2003 Dialog, a Thomson business